

WHAT IS CLAIMED IS:

1. A fuse containing box for directly connecting to and mounting on a battery, the fuse containing box comprising:

an upper and lower case, each made of a polypropylene-based resin;

a supporting plate housed between the upper and lower case and made of a heat-resistant nylon-based resin, the supporting plate including a battery fuse, and a bus bar connected to a terminal of the battery fuse.

2. The fuse containing box according to claim 1, wherein the resin of the supporting plate is formed from a mixture of nylon 66 and polyphenylene ether (PPE).

3. The fuse containing box according to claim 1, wherein the upper case is formed from a mixture of polypropylene and an elastic resin; and the lower case is formed from a mixture of polypropylene and talc.

4. The fuse containing box according to claim 1, wherein the supporting plate has a locking piece vertically formed on the supporting plate, the locking piece having at an upper end a bus bar fixing claw that horizontally projects to lock the bus bar in place.

5. The fuse containing box according to claim 4, wherein a supporting plate cavity is formed between the bus bar fixing claw and the lower case.

6. The fuse containing box according to claim 5, wherein the lower case has a heat radiation opening that is in communication with the supporting plate cavity.

7. The fuse containing box according to claim 6, wherein the heat radiation opening is larger than the supporting plate cavity.

8. The fuse containing box according to claim 7, wherein a distance from a periphery of the opening to sides of the cavity is at least 0.5mm.